



Profibus DP Marin SHF2-MUD

1 x 2 x 0.35 mm²

Flexible

SHF2 MUD, UV

DNV

Application

Profibus data cable, for use in ship, offshore and industrial automation systems.

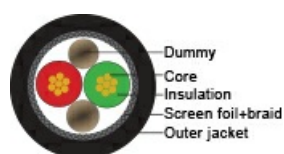
Signal transmission from separate sensors to control unit.

The cable is halogen-free, flame-retardant, oil-resistant and UV-resistant.



Construction

Conductor	Stranded tinned Cu AWG 22/7 (7x0.254mm)
Insulation	Foam PE Ø = 2.55 ± 0.05 [mm] green, red
Filler	PP
No. of pairs	1
Screen	Al/Mylar
Screen 2	Tinned Cu braid ≥ 60 [% optical coverage]
Jacket	Black SHF2 MUD
O.D.	7.8 ± 0.60 [mm]
Weight	95 [kg/km]
Jacket marking	NEK KABEL – PROFIBUS DP MARINE 1 x 2 x 0.35mm ² – SHF 2 – MUD – IEC 60332-3-22 – DNV – <*****> – DD.MM.YYYY – ****M



Specifications

Operating temperature normal	-40 – +80 [°C]
Temperature @ installation	-20 – +60 [°C]
Characteristic impedance	@ 3-20 MHz: 150 ± 15Ω @ 38,4 kHz: 185±18.5Ω @ 9,6 kHz: 250 ± 25Ω
Conductor DC resistance	≤ 55 [Ω/km]
Insulation resistance	≥ 1 [GΩ x km]
Test voltage	1 [kV-DC 1 min.]
Capacitance	Nom. 30 [pF/m] at 1kHz
Attenuation	≤ 45 dB/m @ 16 MHz ≤ 22 dB/m @ 4 MHz ≤ 5 dB/m @ 38.4 MHz ≤ 3 dB/m @ 9.6 MHz
Min. bending radius	15 [x outer diam]



Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Material properties, insulation and sheath	IEC 60092-360
Flame resistance	IEC 60332-3-22
Flame retardant	IEC 60332-1-2
Toxic gases max.	IEC 61034-2 $\geq 60\%$
Smoke emission	IEC 61034-1 & IEC 61034-2
Oil and fuel resistant	IRM 902 & IRM 903 100°C x 24h
MUD resistant	Calcium Bromide, 70°C×56d EDC 95-11 base oil, 70°C×56d
UV-resistant	ASTM G 154
Certification	DNV

Prod.no.	1091039
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Updated

Date	Rev.	Description
19.01.2017	1	Additional technical data
26.05.2025	2	Additional info